Product Release Information

Iomega® StorCenter™ px12-350r Network Storage Array, Server Class Series, 4TB - 36TB

Description

The Iomega® StorCenter™ px12-350r Network Storage Array is a powerful network storage solution offering the highest levels of performance and advanced data protection for small- to medium-sized businesses and the distributed enterprise. Powered by enterprise-class EMC® storage technology, the StorCenter px12-350r is ideal for production data stores, server virtualization, backup-to-disk target and video surveillance. Available in configurations up to 36TB in a single array, the high performance px12-350r is better, faster and more reliable for your mission critical data. The StorCenter px12-350r includes many enterprise-class features, such as device-to-device data replication to ensure data integrity at both the source and the replication target and businesses will appreciate extremely high throughput with quad-Gigabit Ethernet connectivity and an Intel® Core™2 Duo Processor,
plus link aggregation (port bonding), **server class** hard drives, and the option of solid state drives.

Scheduled Availability – February 2012.

Features

Capacity: Starting at 4TB (4 x 1TB SATA HDDs) with maximum capacity of 36TB (12 x 3TB SATA HDDs)

- Server Class hard drives are used to ensure higher reliability and performance. These drives are designed to better handle rotational vibration and continuous operation for mission critical applications. Ideal for video surveillance applications.
- 4-drive disk packs enable expansion to 8 or 12 drive configurations

Expandability: Add storage capacity by simply adding drives in the unpopulated drive bays. Added drives can be brought into an existing Storage Pool or made into a new Storage Pool. Additionally, USB connected Hard Disk Drives can be attached and used as shares. The StorCenter px12 supports read and write on Fat32, NTFS, or ext2/ext3 formatted hard disks; read only of **external HFS+ formatted drives.**

RAID Support: RAID 1, 10, 5, and 6 with hot spare, automatic RAID rebuild and hot swap. RAID 0 and JBOD mode also available.

SSD Support: For IO intensive applications, the px12-350r can be fitted with solid state drives to boost performance.

Redundant Power Supply – Ships with dual hot swappable power supplies for 1+1 redundancy

Storage Pools: Storage Pools group drives of like size and RAID protection together to simplify management. Optimize block storage performance with dedicated iSCSI storage pools.

Network File Protocols Supported: CIFS/SMB/Rally (Microsoft), NFS (Linux/UNIX), AFP/Bonjour (Apple), FTP, SFTP, TFTP, HTTP, HTTPS, WebDAV, Windows DFS, SNMP.

iSCSI Target provides block-level access for the most efficient storage utilization, especially for backup, database and email application performance. It can be used in parallel with file-level storage access via CIFS/NFS. Includes support for SCSI-3 persistent reservations.

High-Performance

- Server Class Hard Drives
- Solid state drives (optional)
- Dual Core Intel Processor
- 4GB memory
- Quad GbE NICs

Flexible Configurations

- Storage pools with RAID expansion, migration and hot spares
- Advanced RAID levels including Hot Spare

Server-class Pedigree: Server class drives; certified for VMware® vSphere 5.0, Citrix® XenServer™, Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2. EMC E-Lab tested

Business-class Features: Windows Active Directory Trusted Domains, Microsoft Cluster Server and Hyper-V Live Migration support

Advanced Networking Capabilities:

- NIC bonding for failover and load balancing including 802.3ad link aggregation.
- Jumbo frame support for 4000 and 9000 byte payloads.
- VLAN Tagging capability to IEEE 802.1Q standard.
- iSCSI persistent reservations for clustered Microsoft environments.

Data Replication / Device to Device Data Copy Jobs:

- Easily copy files to and from attached USB drives or any network share – including Iomega Personal Cloud locations – using the secure rsync or CIFS protocol.
- Define your Copy Job to copy/synchronize files to and from connected drives and/or any other shared storage on your network.
- Schedule jobs to run on a predetermined schedule.

Application Manager: Third party applications can be installed using the embedded application manager.

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Data Organization and Access: Windows DFS organizes folders and files on a network, such that they appear to be all in one directory tree on a single Iomega StorCenter system, even if the folders reside on many devices in many different locations. WebDAV (Web-based Distributed Authoring and Versioning) enables viewing, adding, or deleting files on a StorCenter from the web, via HTTP or HTTPS for added security.

Power Savings:

- Automatic hard drive spin-down assure the most efficient (minimal) power consumption.
- **Scheduled Power:** Automatically power on or turn off your Iomega StorCenter at a pre-selected time schedule.
- **Wake-On-LAN:** Powers on your Iomega StorCenter when a "magic-packet" wake-up signal is sent over the network.(Wake-On-LAN magic packet application not included)

Print Server: Intelligent print sharing capability for up to 3 USB printers connected to the **StorCenter** px12-350r.

Uninterruptible Power Supply (UPS) Support: Enables unattended system shutdown via the USB port without data loss in the case of power failure.

Simple Management using the web UI – either local or remote.

Configuration Backup and Restore: allows you to back up and restore system configuration information. Backing up a configuration saves various system properties, including users, groups, device identification, and Share names and permissions.

System Status: Consolidated resource on space utilization, device information, and status. In addition, you can manage controls such as device restart from here.

SMART Hard Drive Monitor: Continually monitors and reports on the health of all drives in the Iomega StorCenter system.

Reporting: Email alerts and Event Logging provide up-to-the-minute updates on the status of your device even when you are away from your computer. SNMP agent monitoring helps administrators centrally manage the **StorCenter** px12-350r.

Iomega® Personal Cloud: Iomega Personal Cloud is a patent-pending, web-based computing architecture that connects your Iomega StorCenter™ Network Storage Array devices to other individuals and/or devices via the Internet

Software Compatibility: Compatible with today's most common backup software, web browsers, media devices and computers.

Warranty: 3 year limited warranty (with product registration)

Benefits

Virtualization

- Iomega StorCenter devices are certified for Citrix® XenServer™ 5.6, Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2, VMware® vSphere 5.0 which makes them the most cost-effective solution for server virtualization.

Video Surveillance Camera:

- Built in support for up to 12 UPnP (universal plug and play) network cameras by Axis® , Bosch, and Panasonic to capture and store video without the need of a dedicated PC. IP cameras from other manufacturers can record to a Share, but are not automatically discovered. Video is encoded as MPEG-4. Support for high-definition(720p) and configurable resolution settings.
- Embedded Axis Video Hosting System solution (AVHS) for local to hosted cloud video storage and management.
- Combines StorCenter's smart storage with leading video management sytems SoleraTec®, MindTree® or EMC® Lifeline Native App for an integrated all-in-one solution

Powerful Backup Functionality

- Backup *all* the computers on your network simply by downloading and installing the available client backup software. Also compatible with today's most common backup software applications.
- **Symantec Backup:** Iomega StorCenter network storage products are identified as compatible disk targets for Backup Exec software.
- **Iomega Personal Cloud Backup:** Synchronize data between personal cloud member systems and the px12-350r.
- **Public Cloud Backup:** Use one of the integrated 3rd party cloud-based storage services such as Amazon S3 or MozyConnect™ to replicate data from your px12-350r to your public cloud account.
- **Cloud Disaster Recovery:** Utilize two px12-350r devices in different locations and the Iomega Personal Cloud function to create your own disaster recovery scheme.
- **+Atmos Cloud Folder Mirroring:** With Atmos enabled by a service provider, single folders on your Iomega StorCenter device can be mirrored to Atmos.
- **Deduplicating Backup with EMC Avamar –** With Avamar support on the px12-350r, users have the industry's first storage product that natively supports EMC's industry-leading Avamar sub-file deduplication for remote office/branch office (ROBO) backup.
- **Apple® Time Machine™ Backup:** Compatible backup target

Total Data Protection:

- **Native Security Support** with robust username and password authorized access. Create additional users and secure their content with password protection.
- **Encrypted Volume:** Allows you to create an encrypted volume with an assigned password; thus securing the data on the encrypted volume.
- **User Quotas:** Easily manage capacity by setting maximum limits per user.
- **RSA® BSAFE®** technology protects installs and upgrades.
- **Data Protection Software:** Iomega's QuikProtect™ backup software is available for download.

Specifications

- 2U form factor, 12 slots for 3.5 inch SATA Hard Disk Drives
- Intel Core2 Duo E8400 @ 3GHz CPU
- 4GB DDR2 Memory
- Four (4) 10/100/1000 Mbps Ethernet ports (RJ 45 connector)

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- 4 x 3.5" Hot swap SATA-II Server Class hard disk drives

Reliability MTBF	1,200,000 hours
Latency/seek time	4.17 msec
Rotational Vibration Sensor	Yes
Spindle Speed	7200 rpm

- **RAID 0, 1, 10, 5, 5+hot spare, and 6 protection on a per-Storage Pool basis.** (Note: all disks within a single RAID/storage pool should be the same capacity, speed, and manufacturer. Mixing different types of drives may result in unpredictable behavior)
- **Power Consumption**
  - Max: 200W
  - Min: 110W (drives spun down)
- **iSCSI: Supports** both file and block storage pools, 256 hosts maximum with the following parameters;
  - Block storage pools; 32 LUNS maximum per pool. 128 LUNs maximum per device.
  - File storage pools; 256 LUNs Maximum per pool. 256 LUNs maximum per device.
- Three USB 2.0 ports; One front, two rear
- LAN standards: IEEE 802.3, IEEE 802.3u
- AC Voltage 100-240 VAC, 50-60 Hz
- Acoustic noise – 56 dBA maximum
- Temperature, Humidity and Altitude

	Operating	Non-Operating
Ambient Temp	10º to 35º C	-40º to 60º C
Temp Gradient	12 º C per hour	n/a
Humidity (non-condensing)	8% to 85% R.H.	5% to 95% R.H.
Max Wet Bulb	26.6ºC	29.4 ºC
Altitude	to 7500 ft.	to 40,000 ft.

- User interface localized for English, French, Italian, German, Spanish, Brazilian Portuguese, Russian, Traditional Chinese, Simplified Chinese, Korean, Japanese, Arabic, Hebrew, Turkish, Swedish, and Polish

Certifications

The Iomega® StorCenter™ px12-350r Network Storage Array has received the following certifications:

- VMware vSphere™ 5.0, iSCSI
- Windows® Server 2003 and Windows Server 2008, and 2008 R2 including Microsoft® Cluster Server and Hyper-V Live Migration.
- XenServer™, 5.6 (w/ MPIO), iSCSI & NFS

Weight and Dimensions

Unit Information	**Master Carton Information**
25.98" x 16.93" x 3.46" 660 mm x 430 mm x 88 mm 43 lbs / 19.5 kg (4 drives included)	38.125" x 23.625" x 9.0" 968 mm x 600 mm x 229 mm 60 lbs / 27.2 kg (4 drives included)

All dimensions LxWxH and are approximations

Contents

- Iomega® StorCenter™ px12-350r Rackmount NAS Server
- Sliding rail kit for standard 19" rack
- Ethernet cable
- Power cables (support for worldwide distribution – cable for: USA, UK, Japan, Europe & Australia)
- Printed Quick Start Guide
- Solutions CD with system administration software and user manual

System Requirements

- Available 10/100/1000 Mbps network Ethernet port (required).
- Internet Explorer 7, Firefox® 3.x, Safari 3 or later browser.
- CD or DVD drive to install software.

- Personal cloud and remote access specific requirements:
  - Internet connection
  - Universal Plug and Play (UPnP™) compatible router, or administrative rights to port forward.
  - Recommended minimum sustained connection speeds for a good Personal Cloud experience.
    - Download: 2.5 Mbit/s
    - Upload: 500Kbit/s
  - Personal Cloud is not compatible with Active Directory
  - Personal Cloud is not compatible with XP 64 bit

PC Users:

- Microsoft® Windows® XP / Vista / 7 (all versions - exclusive of XP 64 bit for Personal Cloud)

Mac® Users:

- Mac OS X 10.5 – 10.7

Linux® Users

- Redhat Enterprise Linux 4/5 Desktop/Workstation, Ubuntu 7.10 – 10.10, Fedora 7/8, Fedora Core 5/6, OpenSUSE 10.3- 11.3, Debian 4

Ordering Information

Capacity	Configuration	Model Name	SKU	UPC Code
4TB	4 x 1TB HDD	StorCenter px12-350r Network Storage Array, Server Class Series, 4TB (4 x 1TB), LA	35954	742709359545
8TB	4 x 2TB HDD	StorCenter px12-350r Network Storage Array, Server Class Series, 8TB (4 x 2TB), LA	35955	742709359552
12TB	4 x 3TB HDD	StorCenter px12-350r Network Storage Array, Server Class Series, 12TB (4 x 3TB), LA	35956	742709359569
Accessories				
Expansion Pack		NAS px12 Server Class Expansion Pack 4TB, (4HD x 1TB)	35957	742709359576

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Expansion Pack	NAS px12 Server Class Expansion Pack 8TB, (4HD x 2TB)	35958	742709359583
Expansion Pack	NAS px12 Server Class Expansion Pack 12TB, (4HD x 3TB)	35959	742709359590
Service Plan	Enhanced Service Plan ix12/px12-350r - 3 years, 24/7 phone support,NBD on-site	36005	742709360053
Service Plan	Enhanced Service Plan ix12/px12-350r - 5 years, 24/7 phone support, NBD on-site	36006	742709360060
Service Plan	Premium Service Plan px12-350r – 3 years, 24/7 phone support, 4-hour on-site, 1TB Server Class spares kit*	36008	742709360084
Service Plan	Premium Service Plan px12-350r – 3 years, 24/7 phone support, 4-hour on-site, 2TB Server Class spares kit*	36009	742709360091
Service Plan	Premium Service Plan px12-350r – 3 years, 24/7 phone support, 4-hour on-site, 3TB Server Class spares kit*	36010	742709360107
Service Plan	Premium Service Plan px12-350r – 5 years, 24/7 phone support, 4-hour on-site, 1TB Server Class spares kit*	36011	742709360114
Service Plan	Premium Service Plan px12-350r – 5 years, 24/7 phone support, 4-hour on-site, 2TB Server Class spares kit*	36012	742709360121
Service Plan	Premium Service Plan px12-350r – 5 years, 24/7 phone support, 4-hour on-site, 3TB Server Class spares kit*	36013	742709360138
Spare HDD, 1TB	NAS px12 Single Spare/Accessory HDD, Hot Swappable 1TB, Server Class	35960	742709359606
Spare HDD, 2TB	NAS px12 Single Spare/Accessory HDD, Hot Swappable 2TB, Server Class	35961	742709359613
Spare HDD, 3TB	NAS px12 Single Spare/Accessory HDD, Hot Swappable 3TB, Server Class	35962	742709359620
Accessory SSD, 128GB	Single Spare/Accessory SSD, Hot-Swappable, 128GB	35666	742709356667
Accessory SSD, 256GB	Single Spare/Accessory SSD, Hot-Swappable, 256GB	35861	742709358616
Spare Power Supply	Spare/Accessory Power Supply, Hot-Swappable	34713	742709347139
Spare Fan	Spare/Accessory Fan, Hot-Swappable	34714	742709347146

Additional Product Images